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15	~	•,033,270							
10	AB	5,159,565	10/27/92	Bune		364	724.16		
0	AC	5,222,101	06/22/93	Ariyavisitakul, e	E al.	375	13		
66				_		375	12	ļ	
2	AD	5,297,165	03/22/94	Ueda, et al.		3,3	12		
17	ΑE	5,351,134	09/27/94	Yaguchi, et al.		358	435		
54	N 22	E ATA 727	NE/NB/0E	Kautmann		375	232	-	
·	AF	5,414,732							
80	AG	5,475,710	12/12/95	Ishizu, et al.		375	232		
(X	AH	5,602,602	02/11/97	Hulyalkar		348	607	 	
a		3,002,002	1						
10	ΑI	5,787,118	07/28/98	Veda		375	232		
0	AJ	5,841,484	11/24/98	Hulyalkar, et al.		348	607		
18				_		<u> </u>			
16	AK	5,956,624	09/21/99	Hunsinger et al.		455	65	Į.	
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OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.) BR Simon Haykin, "Adaptive Equalization," Communication Systems, 3rd Edition, John Wiley & Sons, pp. 452-458, New York, 1994.									s, 3 rd		
CF	BS "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2 Functional Specification, Part 1 - Physical (PHY) layer," European Telecommunications Standards Institute, Vol. J, Sep. 1999.										
G	DRAFT Supplement to STANDARD [for] Information Technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: High Speed Physical Layer in the 5 GHz Band, IEEE P82.11a/D7.0, (Supplement to IEEE Std 802.11-1999)										
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65	cs	Gray, A in 1.2µm Engineen http://	Gregory T. Uehara, Caesar S.H. Wong, Jacques C. Rudell, and Paul R. Gray, A 50MHz 70mW 8-Tap Adaptive Equalizer/Viterbi, Sequence Detector in 1.2µm CMOS, Blectronics Research Laboratory, Department of Electrical Engineering & Computer Sciences, University of California, http://kabuki.eecs.berkeley.edu/%7Ejrudell/papers/CICC/ pp. 1-11, Berkele CA, 07/19/01									
EF	CT	Gray, A Channels Universi	Caesar S.H. Wong, Jacques C. Rudell, Gregory T. Uehara, and Paul R. Gray, A 50MHz 70mW 8-Tap Adaptive Equalizer for Partial Response Channels, Department of Electrical Engineering and Computer Sciences, University of California, http://kabuki.eecs.berkely.edu%7Ejrudell/papers/jssc/ , pp.1-19, Berkeley, CA, 07/19/01.									
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